

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
WH4SERIAL NO.  
09/026,353INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT(S)

JUN 08 1998

APPLICANT(S)  
LOUIS C. ARGENTA & MICHAEL J. MORYKVAS

FILING DATE

02/19/98

GROUP

3737

27 1998

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

Examiner Initial	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
sh	A1 4 9 2 5 4 4 7	05/90	ROSENBLATT			
	A2 5 1 4 9 3 3 1	09/92	FERDMAN			
	A3 5 1 1 3 8 7 1	05/92	VILJANTO			
	A4 4 8 2 0 2 8 4	04/89	HAURI			
	A5 4 5 7 3 9 6 5	03/86	RUSSO			
	A6 3 9 9 3 0 8 0	11/76	LOSEFF			
	A7 3 9 0 8 6 6 4	09/75	LOSEFF			
	A8 4 5 4 0 4 1 2	09/85	VAN OVERLOOP			
	A9 4 5 2 5 1 6 6	06/85	LECLERC			
sh	A10 4 9 6 9 8 8 1	11/90	VIESTURS			
	A11 4 8 5 1 5 4 5	07/89	SONG			

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## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
B1 9 1 0 0 7 1 8	01/91	WO PCT/SE90/00441 SVEDMAN			
B2 9 2 2 0 2 9 9	11/92	WO PCT/US92/04019 ZAMIEROWSKI			
B3 6 4 1 0 6 1	08/50	United Kingdom			
B4 1 2 7 3 3 4 2	05/72	United Kingdom			
B5 2 8 0 9 8 2 8	09/78	Germany			

Group 3700

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

C1	M. Gosta Arturson, <u>The Pathophysiology of Severe Thermal Injury</u> , JBCR, 6(2):129-146 (March-April), 1985.
C2	R.A.F. Clark et al., <u>The Molecular and Cellular Biology of Wound Repair</u> , Chapter 1 (1988).
C3	Jeter, K.F. et al. (eds.), <u>"Managing Draining Wounds and Fistulae: New and Established Methods," Chronic Wound Care: Health Management Publications, 1990, pp. 240-246.</u>
C4	Aeros, "Moblvac II."
C5	Aeros, Aeros Instruments, Inc. 1111 Lakeside Drive, Gurnee, IL 60031. August, 1993. "Care-E-Vac."
C6	Emerson, Series 55. J.H. Emerson Co., 22 Cottage Park Ave., Cambridge, MA 02140. "Emerson Post-Operative Suction Pumps."
C7	Emerson, J.H. Emerson Co., (address: same as above). "Emerson Transport Suction Unit."
C8	Aeros, Aeros Instruments, Inc. 3411 Commercial Ave., Northbrook, IL 60062. October 1988. Part No. 1504-02 7N. "Instavac Aspirator."

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sh	A12 4 9 3 1 5 1 9	06/90	SONG			
	A13 5 0 3 5 8 8 4	07/91	SONG			
	A14 4 1 6 9 5 6 3	10/79	LEU			
	A15 4 5 2 7 0 6 4	07/85	ANDERSON			
	A16 4 9 6 9 8 8 0	11/90	ZAMIEROWSKI			
	A17 5 1 0 0 3 9 6	03/92	ZAMIEROWSKI			
	A18 2 5 4 7 7 5 8	04/51	KEELING			
	A19 3 6 8 2 1 8 0	08/72	MCFARLANE			
	A20 4 0 8 0 9 7 0	03/78	MILLER			
	A21 4 2 6 1 3 6 3	04/81	RUSSO			
sh	A22 4 2 7 5 7 2 1	06/81	OLSON			

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## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
sh B6 WO 91 1 6 0 3 0	08/91	Published PCT			
sh B7 5 6 1 7 5 7	10/32	DE	50d		X
sh B8 9 0 1 1 7 9 5	10/90	WO	A61M 27	00	
sh B1 WO 92 1 9 3 1 3	11/92	PCT			
sh B2 DE 41 1 1 1 2 2	4/93	Germany			X

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

sh C9	"Pleur-evac. Adult-Pediatric, Non-Metered." Code Number: A-4000. Control Number: F7961J.
C10	Instruction Manual, Creative Medical Laboratories, Inc. P.O. Box 6347, Rochester, Minn. 55903. "TUGS" (Transportable Universal Gradient Suction).
C11	Deknatel, Div. of Howmedica, Inc. Queens Village, NY 11429. "Pleur-evac."
C12	Sparta Instrument Corp. 26602 Corporate Ave., Hayward, CA 94545. "Power Source Multi-Purpose Surgical Aspirator."
C13	Wells Johnson Company, 2045 N. Forbes Blvd., Suite 106, Tucson, AZ. "Point 5 Aspirator."
C14	Microtek Heritage, Inc. P.O. Box 2487, Columbus, MS 39704. "Wound-Evac ET."
sh C15	Fleischmann, W. <u>Wund Forum Spezial</u> . IHW '94. "Vakuumversiegelung zur Behandlung von Problemwunden" (with English translation: "Vacuum Sealing for Treatment of Problematical Wounds.")
C16	Fleischmann, W. <u>Acta Orthopaedica Belgica</u> . Vol. 58, Suppl. 1-1992 "Treatment of Bone and Soft Tissue Defects in Infected Nonunion."

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A23	4 3 7 3 5 1 9	02/83	ERREDE			
A24	4 3 9 2 8 5 3	07/83	MUTO			
A25	4 4 1 9 0 9 7	12/83	ROWLAND			
A26	4 4 8 0 6 3 8	11/84	SCHMID			
A27	4 5 4 3 1 0 0	09/85	BROOSKY			
A28	4 6 0 5 3 9 9	08/86	WESTON			
A29	4 6 0 8 0 4 1	08/86	NIELSEN			
A30	4 6 4 0 6 8 8	02/87	HAUSER			
A31	4 7 4 3 2 3 2	05/88	KRUGER			
A32	4 4 7 5 9 0 9	10/84	EISENBERG			
A33	4 8 3 8 8 8 3	06/89	MATSUURA			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

C17	Fleischmann, W. Unfall Chirurg. Springer-Verlag 1993. "Vakuumversiegelung zur Behandlung des Weichteilschadens bei offenen Frakturen." (English abstract, no English translation.)
C18	Valenta, A. American Journal of Nursing. April 1994. "Using the Vacuum Dressing Alternative for Difficult Wounds."
C19	Junod, "Hyperemia by Suction Apparatus" Chapter VIII
C20	Saunders, J.W., The Lancet, pp. 1286-1287, June 28, 1952, "Negative-Pressure Device for Controlled Hypotension during Surgical Operations"
C21	Landis et al, Robinette Foundation of the Hospital of the University of Pennsylvania, "The Effects of Alternate Suction and Pressure on Blood Flow to the Lower Extremities"
C22	Hargens et al., Space Physiology Laboratory, Life Science Division, NASA Ames Research Center, "Control of Circulatory Functions in Altered Gravitational Fields"
C23	Wolthuis et al, Physiological Reviews, 54: 566-595, July 1974, "Physiological Effects of Locally Applied Reduced Pressure in Man"
C24	Viljanto et al., Br. J. Surg., 63: 427-430, 1976, "Local Hyperalimentation of Open Wounds"

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	A34	4	8	4	0	1	8	7	06/89	BRAZIER			
	A35	4	8	6	3	4	4	9	09/89	THERRIault			
	A36	4	8	7	8	9	0	1	11/89	SACHSE			
	A37	5	2	6	1	8	9	3	11/93	ZAMIEROWSKI			5/14/91
	A38	3	3	6	7	3	3	2	02/68	GROVES			
	A39	3	0	2	6	8	7	4	03/62	STEVENS			
	A40	3	8	7	4	3	8	7	04/75	BARBIERI			
	A41	3	8	9	6	8	1	0	07/75	AKIYAMA			
	A42	3	9	5	4	1	0	5	05/76	NORDBY			
	A43	4	1	1	2	9	4	7	09/78	NEHRING			
	A44	4	2	2	4	9	4	5	09/80	COHEN			

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

Group 3700

	C25	Dillon, Angiology -- The Journal of Vascular Diseases, pp. 47-55, January 1986, "Treatment of Resistant Venous Stasis Ulcers and Dermatitis with the End-Diastolic Pneumatic Compression Boot"
	C26	Lundvall et al., Acta Physiol Scand, 136: 403-409, accepted Jan. 28, 1989, "Transmission of externally applied negative pressure to the underlying tissue. A study on the upper arm of man"
	C27	Klemp et al., The Journal of Investigative Dermatology, pp. 725-726 (1989), "Subcutaneous Blood Flow in Early Male Pattern Baldness"
	C28	A. Harle, Z. Orthop., 127: 513-517 (1989), "Schwachstellen herkommlicher Drainagen"
	C29	Dunlop et al., Br. J. Surg., 77: 462-563 (1990), "Vacuum drainage of groin wounds after vascular surgery: a controlled trial"
	C30	Maddin et al., International Journal of Dermatology, 29: 446-450 (1990), "The Biological Effects of a Pulsed Electrostatic Field with Specific Reference to Hair: Electrotrichogenesis"
	C31	Nakayama et al., Ann. Plast. Surg., 26: 499-502 (1991), "A New Dressing Method for Free Skin Grafting in Hands"
	C32	Hargens et al., Aviation, Space and Environmental Medicine, pp. 934-937, Oct. 1991, "Lower Body Negative Pressure to Provide Load Bearing in Space"

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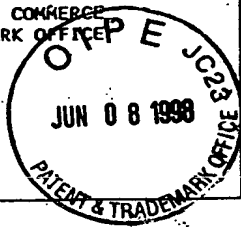
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## U.S. PATENT DOCUMENTS

Examiner Initial	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	TRANSLATION DATE
	A45 4 2 5 0 8 8 2	02/81	ADAIR			
	A46 4 3 8 2 4 4 1	05/83	SVEDMAN			
	A47 4 7 6 4 1 6 7	08/88	TU			
	A48 4 8 2 0 2 6 5	04/89	DESATNICK			
	A49 4 8 3 4 1 1 0	05/89	RICHARD			
	A50 4 9 2 1 4 9 2	05/90	SCHULTZ			
	A51 R E 2 9 3 1 9	07/77	NORDBY			
	A52 7 6 5 7 4 6	07/04	MINER			
	A53 8 4 3 6 7 4	02/07	FUNK			
	A54 1 3 5 5 6 7 9	10/20	MCCONNELL			
	A55 1 3 5 5 8 4 6	10/20	RANNELLS			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	TRANSLATION NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

C33	Author unknown, Science, Sept. 1992, p. 42, "The Not-So-Bald-Truth"
C34	Techno Takatsuki Co., Ltd., 8-16 Hatchonishimachi, Takatsuki City, Osaka, JAPAN, "HiBlow Air Pump"
C35	Wells Johnson Company, 2045 N. Forbes Blvd., Suite 106, Tucson, AZ, "Suction Tips"
C36	Industrial Equipment News, P.O. Box 1158, Skokie, IL 60076-9786, "Miscellaneous Equipment"
C37	Letsou et al. "Stimulation of Adenylate Cyclase Activity in Cultured Endothelial Cells Subjected to Cyclic Stretch." Cardiovascular Surgery 3. Toronto. Sept. 1989. 634-639.
C38	Bucalo et al. "Inhibition of Cell Proliferation by Chronic wound Fluid." Wound Repair and Regeneration. Miami. 1991. 181-186.
C39	Falanga, Vincent. "Growth Factors and Chronic Wounds: The Need to Understand the Microenvironmet." Journal of Dermatology, Bol. 19: 667-672. 1992.
C40	Urschel et al. "The Effect of Mechanical Stress on Soft and Hard Tissue Repair; a Review." British Journal of Plastic Surgery. 41, 182-186. 1988.

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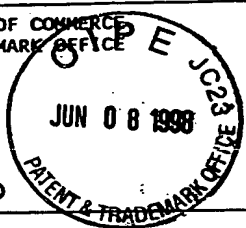
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## U.S. PATENT DOCUMENTS

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	A56 1 3 8 5 3 4 6	7/21	TAYLOR			
	A57 2 2 3 2 2 5 4	2/41	MORGAN			
	A58 2 3 3 8 3 3 9	1/44	LaMERE			
	A59 2 9 6 9 0 5 7	1/61	SIMMONS			
	A60 3 0 2 6 5 2 6	3/62	MONTROSE			
	A61 3 4 8 6 5 0 4	12/69	AUSTIN, JR.			
	A62 3 4 7 8 7 3 6	11/69	ROBERTS et al.			
	A63 3 4 8 1 3 2 6	12/69	SCHAMBLIN			
	A64 3 6 1 0 2 3 8	10/71	RICH, JR.			
	A65 3 8 2 6 2 5 4	7/74	MELLOR			
	A66 4 1 4 9 5 4 1	4/79	GAMMONS et al.			

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

C41	Gogia, Prem P. "The Biology of Wound Healing." Ostomy/Wound Management. Nov.-Dec. 1992. pp 12-20
C42	Wysocki et al. "Wound Fluid from Chronic Leg Ulcers Contains Elevated Levels of Metalloproteinases MMP-2 and MMP-9." The Society for Investigative Dermatology, Inc. July 1993. 64-68
C43	Olenius et al. "Mitotic Activity in Expanded Human Skin." Plastic and Reconstructive Surgery." Feb. 1993. 213-215.
C44	Mulder, G.D. et al. (eds), Clinician's Pocket Guide to Chronic Wound Repair, (Spartanburg, SC: Wound Healing Publications), 1991, pp. 54-55.
C45	Chariker, M.E. et al. (eds.), "Effective Management of Incisional and Cutaneous Fistulae with Closed Suction Wound Drainage," Contemporary Surgery, Vol. 34, June 1989, pp. 59-63.
C46	Rastgeldi, S.: I. Pressure Treatment of Peripheral Vascular Diseases. II. Intermittent Pressure Treatment of Peripheral Vascular Diseases. Opuscula Medica, Suppl. XXVII, 1972.

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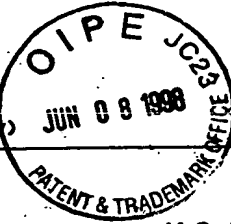
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	A67 4 1 7 2 4 5 5	10/79	BEAUSSANT			
	A68 4 2 9 7 9 9 5	11/81	GOLUB			
	A69 4 4 6 9 0 9 2	9/84	MARSHALL et al.			
	A70 4 6 2 4 6 5 6	11/86	CLARK et al.			
	A71 4 7 5 9 3 5 4	7/88	QUARFOOT			
	A72 4 7 6 5 3 1 6	8/88	MARSHALL			
	A73 4 7 7 8 4 5 6	10/88	LOKKEN			
	A74 4 8 3 6 1 9 2	6/89	ABBATE			
	A75 4 9 0 6 2 3 3	3/90	MORIUCHI et al.			
	A76 4 9 1 7 1 1 2	4/90	KALT			
	A77 4 9 4 1 8 8 2	7/90	WARD et al.			

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sh	A1	3	5	2	0	3	0	0	7/14/70	Flower et al.	128	276	
	A2												
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	A9												
	A10												
	A11												

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sh	B1	8	4	7	4	7	5	C	6/26/52	DE			
	B2												
	B3												
	B4												
	B5												

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

sh	C1	OP-Journal Nr. 3, Jahr. 6, Dec. 1990, pp 31-35 W. Fleischmann, M. Mentzel, L. Kinzl "BWS, Gefahren und Komplikationen der Therapie"											
	C2												
	C3												
	C4												

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